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UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH ADMINISTRATION BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

Project

Date

Author

TITLE

MOUNTAIN PINE BEETLE CONDITIONS IN LODGEPOLE PINE TYPE STATE LINE UNIT ST. JOE NATIONAL FOREST, IDAHO 1951

Appraisal Survey

Forest Insect Laboratory Coeur d'Alene, Idaho January 23, 1952

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FILE COPY FOREST INSECTIONS

SUBJECT-

IDEX NO.-

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Appreisal Survey

By
Forest Insect Laboratory
Coeur d'Alene, Idaho
January 23, 1952

REO 1/30 TT 2/2 GT 2-4

Mountain Pine Beetle Conditions in Lodgepole Pine Type State Line Unit St. Joe Mational Porest, Idaho 1951 1/

Appraisal Survey

An outbreak of the mountain pine beetle (<u>Dendroctonus monticolae</u> Hopk.) was discovered in lodgepole stands in the headwaters of the St. Joe River on the St. Joe Forest in 1948. The infestation was confined to an area lying between the Idaho-Montana state line, and the St. Joe River in T. 45 N.. R. 7. S. 9 E.

The initial examination made in 1948 on a limited area showed that parts, at least, of the area was infested to the extent of a tree per acre. A subsequent survey made in 1949 of 2,700 acres indicated an infestation of from 0.16 to 1.2 infested trees per acre. At that time it was evident that the infestation covered a greater acreage than had been anticipated. Such losses in the heavily stocked stands of lodge-pole pine were not considered a very serious situation providing it did not continue too long or build to greater proportions. There was, however, an indication of an incipient infestation in white pine where white pine occurs as a part of the type.

A thorough survey was made in 1950. The area of infestation was determined to be 10,900 acres. Data obtained showed a reliable estimate of 0.41 infested lodgepole pine and 0.03 infested white pine per acre. The small degree of infestation in the white pine indicated that the type was not in immediate danger. No control was recommended.

The unit was resurveyed during the fall of 1951. A 4 percent coverage of the area gave the following data:

Acres
Infested trees per acre (LPP)
Total estimated infested trees
10,900
0.144 ± 0.034
1.570 ± 370

No infested white pine were recorded on the survey. Several attacked white bark pine were found and were counted with the lodgepole pine. The attacked white bark pine were slightly over I percent of the attacked trees recorded.

^{1/} Prepared by T. T. Terrell.

The above data indicates a marked drop in the infestation from the previous year. From the abundance of dead snags insect activity seems to have been moderately heavy for a long period. Apparently a change in type is occurring in which the mountain pine beetle may be a secondary factor.

It is believed that this infestation may continue for several years, fluctuating to some extent from year to year. A policy of watchfulness is recommended.

ABSTRACT OF FOREST INSECT SURVEY

Type of survey: _Appraisal Field Station Reporting: Coeurd'Alene
Survey area: _State_Line Unit_of the St. Joe Nat. ForDate: Jan. 23, 1952
Project area:State:IdahoCo.: Shoshone
Insect spp.: Dendroctonus monticolae . mountain pine beetle Host spp.: Lodgepole pine Status of infestation: Epidemic of several years standing. Decreasing
Scope of infestation: 10,900 ; 1,570 ; 0.144 ; (Total Ac.) (Total Tr.) (Total b.m.) (Trees/Ac.) (b.m./Ac.)
Acreage of defoliation: :
Ownership (Acres): 100%
Land status:Virgin
Ultimate loss, if no control: Probly no more than
Control method recommended:None
Estimated control costs:;;;;;;; _
Reduction of infestation expected by control:
Period of control benefits expected without additional control action:
Agency expected to perform control operation:
Remarks:This area would be valuable for telephone poles providing a similararea in Montana were developed In the meantime the infestation seems to be dring down.